project file

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

BOARD ORDER NO. 6-89-81
WDID NO. 6A180016000

UPDATED WASTE DISCHARGE REQUIREMENTS

FOR

MADELINE SOLID WASTE DISPOSAL SITE

Lassen County

The California Regional Water Quality Control Board, Lahontan Region (hereinafter Board), finds:

1. Lassen County Department of Public Works submitted information on June 5, 1973 which constituted a complete report of waste discharge for the Madeline Solid Waste Disposal Site. The landfill site is located on land owned by the U.S. Bureau of Land Management and is leased to Lassen County for operation. For the purposes of this Order, Lassen County is hereinafter referred as the "operator", the U.S. Bureau of Land Management as the "landowner", Lassen County and U.S. Bureau of Land Management as the "Dischargers", and the Madeline Solid Waste Disposal Site as the "landfill".

2. The Dischargers propose to continue operation of an existing landfill located approximately 1 mile east of the community of Madeline in Lassen County. The Board previously established waste discharge requirements for the Madeline landfill as a Class II-2 landfill under Board Order No. 6-73-105 which was adopted on August 12, 1973.

3. The Board is updating waste discharge requirements for the Madeline landfill in order to reclassify the landfill waste management units pursuant to the amended Subchapter 15 regulations adopted on November 27, 1984 (Chapter 3, Title 23, California Code of Regulations, hereinafter referred to as "Subchapter 15") and to reflect current Board policy.

4. The 10-acre landfill site is located on Lassen County Assessors Parcel Number 19-11-12 in the SW/4, SW/4, SW/4 of Section 11, T37N, R13E, MDB&M, as shown on Attachment "A" which is made a part of this Order. Attachment "B", which is also made a part of this Order, shows a more detailed view of the landfill.

5. The existing waste management units at the landfill consist of municipal solid waste disposal sites which receive household and commercial refuse.

6. The landfill receives an average of 72 tons of municipal solid waste and inert wastes per year. Septage or chemical toilet waste are not allowed for disposal at the site. The site serves a population of approximately 100 (1980 census).

7. Pursuant to the amended Subchapter 15 regulations, the municipal solid waste and inert solid waste management units are classified as existing Class III landfill units (Section 2533), and these wastes are classified as "non-hazardous solid wastes" and "inert wastes" (Section 2523(a)). The Class III landfill waste management units are the only authorized disposal sites for non-hazardous solid wastes and inert wastes.

8. The Madeline Solid Waste Disposal Site is located at the base of Mitchell Hill at an elevation of 5400 feet. The site is gently sloping. The surrounding land supports pinion pines, shrubs, sage brush, and grasses.

9. Land within 1000 feet of the site is used for ranching and open space.

10. There is an intermittent stream about 500 feet from the site. There are several other intermittent streams about 1/2 mile from the site. The streams flow during rainy periods into low areas on the Madeline Plains where they evaporate. No lakes develop because of the high rates of evaporation and low rainfall. A man-made lake exists about one mile north of the site.

11. The average annual precipitation at Madeline is 11 inches; most of which occurs in the winter months. The landfill is not within a 100-year floodplain.

12. The landfill is about 1 mile east of Madeline on moderately to highly permeable Pleistocene nearshore deposits that are comprised mainly of silty-clayey sand with cobbles and boulders. These deposits are underlain by Pilo-Pleistocene volcanic basalt. There is hydraulic continuity between the disposal site and the nearby groundwater-bearing area within the Madeline Plains. The depth to groundwater in the vicinity of the disposal area is estimated to be approximately 100 feet.

13. The Regional Board adopted a Water Quality Control Plan for the North Lahontan Basin on June 26, 1975, and this Order implements the water quality objectives in that plan and the prescriptive standards contained in Subchapter 15.

14. The beneficial uses of ground waters of the Madeline Plains Hydrologic Unit in the Water Quality Control Plan for the North Lahontan Basin are:

    a. municipal and domestic supply
    b. agricultural supply
    c. freshwater replenishment

15. The beneficial uses of surface waters of the Madeline Plains Hydrologic Unit as set forth and defined in the Water Quality Control Plan for the North Lahontan Basin are:

    a. agricultural supply
    b. groundwater recharge
    c. water-contact recreation
    d. non-water-contact recreation
    e. freshwater habitat for wildlife
    f. wildlife habitat

16. The landfill site uses a trench and fill method of operation. Cover material is applied about twice per year.

17. The Operator is required to conduct further subsurface investigations consisting of exploratory borings and monitoring wells as required by Section 2551 of Subchapter 15.

18. These updated waste discharge requirements govern an existing facility which the Operator is currently operating. The project consists only of the continued operation of the existing facility and is therefore exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.) in accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations.

19. The Board has notified the Dischargers and interested agencies and persons of its intent to update waste discharge requirements for the discharge.

20. The Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Dischargers shall comply with the following:

I. DISCHARGE SPECIFICATIONS

A. Receiving Water Limitations

1. The treatment, storage, or disposal of waste shall not cause the presence of the following substances or conditions in ground or surface waters of the Madeline Plains Hydrologic Unit:

    a. coloration that causes a nuisance or adversely affects beneficial uses
    b. taste or color-producing substances in concentrations that impart undesirable taste or odors in fish flesh or other edible aquatic organisms
    c. perceptible floating materials including, but not limited to, solids, liquids, foams, and scums

d. suspended and settleable material in concentrations that cause a nuisance or adversely affect beneficial uses
e. oils, greases, waxes, or other materials in concentrations that result in a visible film or coating on the surface of the water or on objects in the water
f. substances in concentrations that are toxic to, or that produce detrimental physiological responses in humans, plants, and animals
g. identifiable chlorinated hydrocarbons, organophosphates, carbamates, and other pesticide and herbicidal groups in detectable concentrations
h. pH levels below 6.5 nor above 8.5 pH units. Changes in background pH levels shall not exceed 0.5 units.

2. The treatment, storage, or disposal of waste shall not cause the following conditions or alterations in ground or surface waters of the Madeline Plains Hydrologic Unit:

a. Turbidity levels shall not be altered so as to cause a nuisance or adversely affect beneficial uses. Increases in turbidity shall not exceed natural levels by more than 10 percent.

b. The concentration of settleable material shall not be raised more than 0.1 milliliter per liter.

c. The dissolved oxygen concentration, in terms of percent saturation, shall not be depressed by more than 10 percent, nor shall the minimum dissolved oxygen concentration at any time be less than 80 percent of saturation or less than 7.0 mg/l.

d. The natural receiving water temperature shall not be raised above natural levels.

e. The concentration of biostimulatory substances of waters shall not be altered in an amount that could promote aquatic biomass to the extent that such increases in aquatic biomass are discernible at the 90 percent significance level.

f. There shall not be a statistically significant increase (at a 95% confidence level) in the concentration of waste constituents downgradient of the discharge point over upgradient concentrations.

B. General Requirements and Prohibitions

1. Wastes shall be discharged only into the waste management units specifically designed for their containment.

2. The discharge of hazardous or designated waste at this disposal site is prohibited.

3. The discharge of liquid or semi-solid waste (waste containing less than 50% solids) to the Class III landfill units, except as provided in Section 2523(c) of Subchapter 15, is prohibited.

4. The discharge to the Class III landfill units of solid waste containing free liquid or moisture in excess of the moisture holding capacity of the waste is prohibited.

5. The discharge of solid wastes to ponded water from any source is prohibited.

6. The discharge of solid liquid waste, or leachate to surface water drainage courses, or to the ground water is prohibited.

7. The authorized treatment/storage and disposal sites shall be in compliance with the classification and siting criteria for existing Class III landfills as specified in Section 2533 of Subchapter 15.

8. The authorized treatment/storage and disposal sites shall be in compliance with the minimum construction standards for existing Class III landfills as specified in Article 4 of Subchapter 15 prior to July 1, 1991.

9. Surface runoff from tributary drainage areas and internal drainage shall be diverted around the waste management units in order to preclude contact with or percolation through solid wastes discharged at the site.

10. The surface runoff control structures shall be designed to control runoff from a 100-year, 24-hour rainfall and shall be inspected and maintained to ensure their effectiveness.

11. The exterior surfaces of the disposal site shall be graded to promote lateral runoff of precipitation and to prevent ponding.

12. Prior to the start of the rainy season, compacted impervious cover at least 1 foot (0.3 m) thick with a permeability of 1×10^{-6} cm/sec or less shall be placed over all areas containing solid waste, excluding the active face. Covered disposal areas should be graded to prevent ponding and percolation of surface water into waste material.

13. Water used for dust control during disposal site operations shall be limited to a minimal amount.

14. During the winter months, the disposal activity shall be confined to the smallest area possible based on the anticipated quantity of wastes and operational procedures.

15. The Dischargers shall remove and relocate any wastes which are discharged at this site in violation of these requirements.

16. Neither the treatment, storage, nor the discharge of waste shall cause a nuisance as defined in Section 13050 of the California Water Code.

II. PROVISIONS

1. Board Order No. 6-73-105 is hereby rescinded.

2. The Operator shall comply with the Monitoring and Reporting Program No. 89-81.

3. The Operator shall immediately notify the Board by telephone whenever an adverse condition occurs as a result of this discharge; written confirmation shall follow within 10 working days. An adverse condition includes, but is not limited to:

   a. inundation of the site with flood or storm waters
   b. discharge of waste to ground or surface waters
   c. discharge of leachate to surface waters
   d. ground water incursion of the disposal cells as indicated by visual inspection of monitoring wells
   e. burning of refuse
   f. discharge of hazardous waste

4. Any proposed material change in the character of the waste, manner or method of disposal, increase in landfill volume, or location of discharge, shall be reported to this Board at least 90 days in advance of implementation of any such proposal.

5. The Board, hereby reserves the privilege of changing all or any portion of this Order upon legal notice to and after opportunity to be heard is given to all concerned parties.

6. "Surface waters", as used in this Order, include, but not limited to, live streams, either perennial or ephemeral, which flow in natural or artificial water courses, and natural lakes and artificial impoundments of waters.

7. "Hazardous", "designated", "nonhazardous solid", and "inert" wastes, as used in this Order, are defined by Sections 2521, 2522, 2523, and 2524, of Subchapter 15, respectively.

8. "Disposal site" as used in this Order includes all "Waste Management Units" within the "Waste Management Facility" as defined in Article 2 of Subchapter 15.

9. The Operator shall file a written report within 90 days after the total quantity of waste discharged at this site equals 75 percent of the reported capacity of the site. The report shall contain a detailed plan for site expansion. This plan shall include, but not be limited to, a time schedule for studies, design, and other steps needed to provide additional capacity. If site expansion is not undertaken prior to the site reaching the reported capacity, the total quantity discharged shall be limited to the reported capacity.

10. By August 15, 1989, the Operator shall submit design plans describing any modifications needed to control runoff from a 100-year, 24-hour rainfall as described in the General Requirements and Prohibitions section of this order.

11. By July 1, 1989, the Operator shall submit a report containing a proposed ground water monitoring program pursuant to Article 5 of Subchapter 15. The report should include the proposed design and location of the well required in Monitoring and Reporting Program No. 89-81. The well shall be constructed and developed prior to July 1, 1990.

12. By August 15, 1989, the Operator shall submit a closure and post-closure maintenance plan to the Board including the information prescribed in Section 2597, Subchapter 15. This plan shall be prepared by or under the supervision of either a civil engineer or certified engineering geologist registered in the State of California. The method used to close the site and maintain protection of the quality of ground and surface water shall comply with regulations contained in Article 8 of Subchapter 15.

13. The preliminary closure and post-closure maintenance plan submitted pursuant to the Provision above shall be updated if there is a substantial change in operations. A final plan shall be submitted at least 180 days prior to beginning any partial or final closure activities or at least 120 days prior to discontinuing the use of the site for waste treatment, storage, or disposal, whichever is greater. The final plan shall be prepared by or under the supervision of either a civil engineer or a certified engineering geologist registered in the State of California. The updating of the plan may be prepared by or under the supervision of the owner/or operator of the waste disposal site.

14. Pursuant to Section 2591(c) of Subchapter 15, the Dischargers shall bring the authorized treatment/storage and disposal sites into full compliance with Discharge Specification I.B.8 by July 1, 1991.

15. By August 15, 1989, the Operator shall submit a report outlining a periodic load-checking program for the site to ensure that hazardous materials are not discharged at the landfill. The program shall be implemented within 30 days after approval by the Executive Officer.

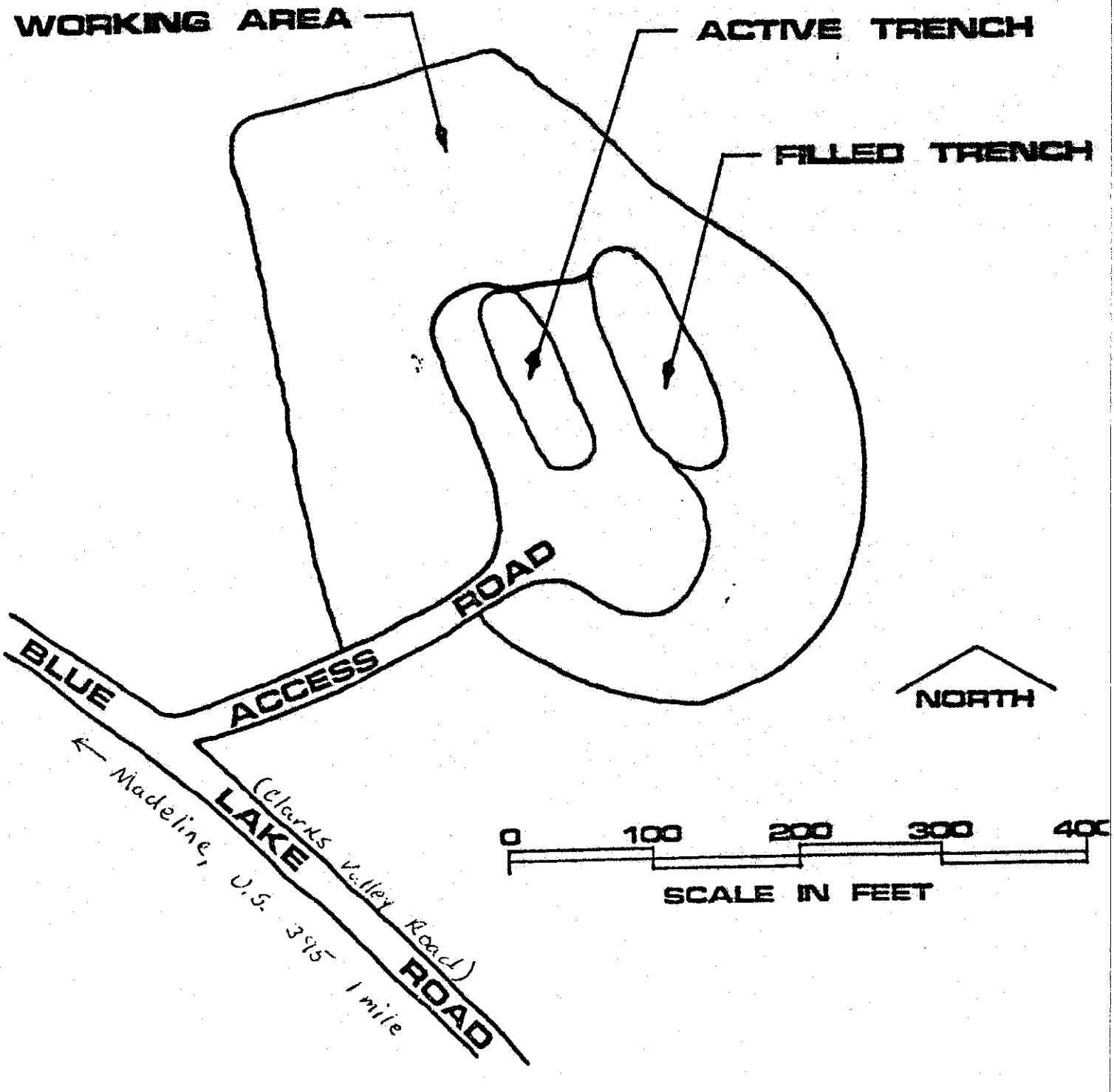
16. The owners of property subject to waste discharge requirements shall be considered to have a continuing responsibility for ensuring compliance with applicable waste discharge requirements in the operations or use of the owned property. Any change in the ownership and/or operation of property subject to waste discharge requirements shall be reported to the Board. Notification of applicable waste discharge requirements shall be furnished to the new owner(s) and/or operator(s). A copy of such notification shall be sent to the Board office.

I, O. R. Butterfield, Executive Officer do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Lahontan Region, on April 13, 1989.

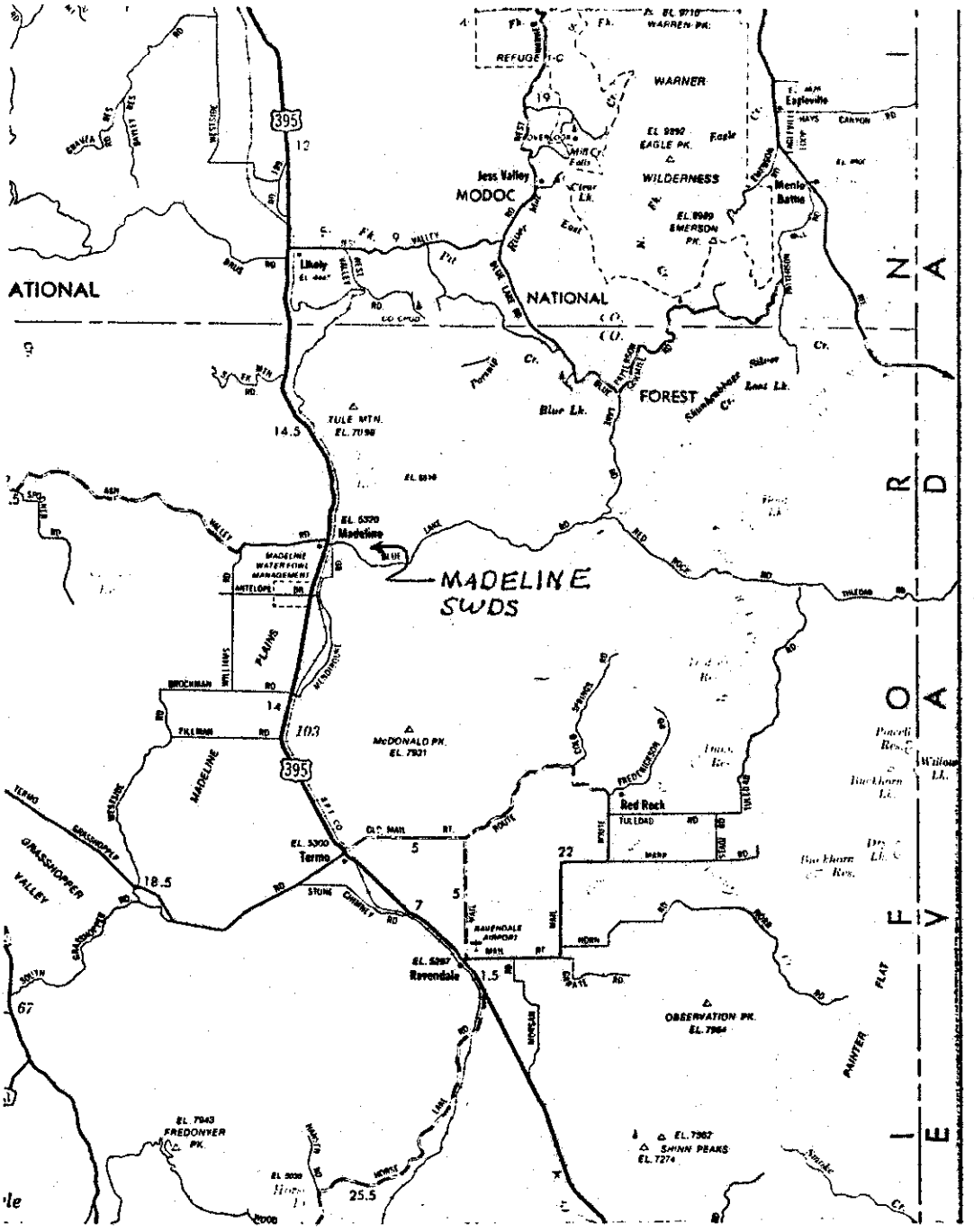
O. R. BUTTERFIELD
EXECUTIVE OFFICER

MADELINE LANDFILL

JUNE 1988



ATTACHMENT "B"



ATTACHMENT "A"